

Serial No. 10/064,939
Docket No. 13DV-13676

Amendments to the Specification:

Please amend the specification by inserting the "replacement" paragraph(s) set forth below, marked up to show the changes made relative to the immediately prior version of the indicated paragraph(s).¹

A

[0010] The present invention generally provides a coating material, particularly a thermal barrier coating (TBC), for a component intended for use in a hostile thermal environment, such as the superalloy turbine, combustor and augmentor components of a gas turbine engine. The coating material has a cubic microstructure and consists essentially of either zirconia (ZrO_2) stabilized by dysprosia (Dy_2O_3), gadolinium oxide (Gd_2O_3), erbia (Er_2O_3), neodymia (Nd_2O_3), samarium oxide (Sm_2O_3) or ytterbia (Yb_2O_3), or hafnia (HfO_2) stabilized by dysprosia, gadolinium oxide, samarium oxide, yttria or ytterbia. Up to five weight percent yttria may be added to the coating materials to further promote thermal cycle fatigue life.

¹ Strikethroughs indicate deletions and underlining indicates insertions.